*C:\Users\Aditi\Java\labprog1.java - Notepad++

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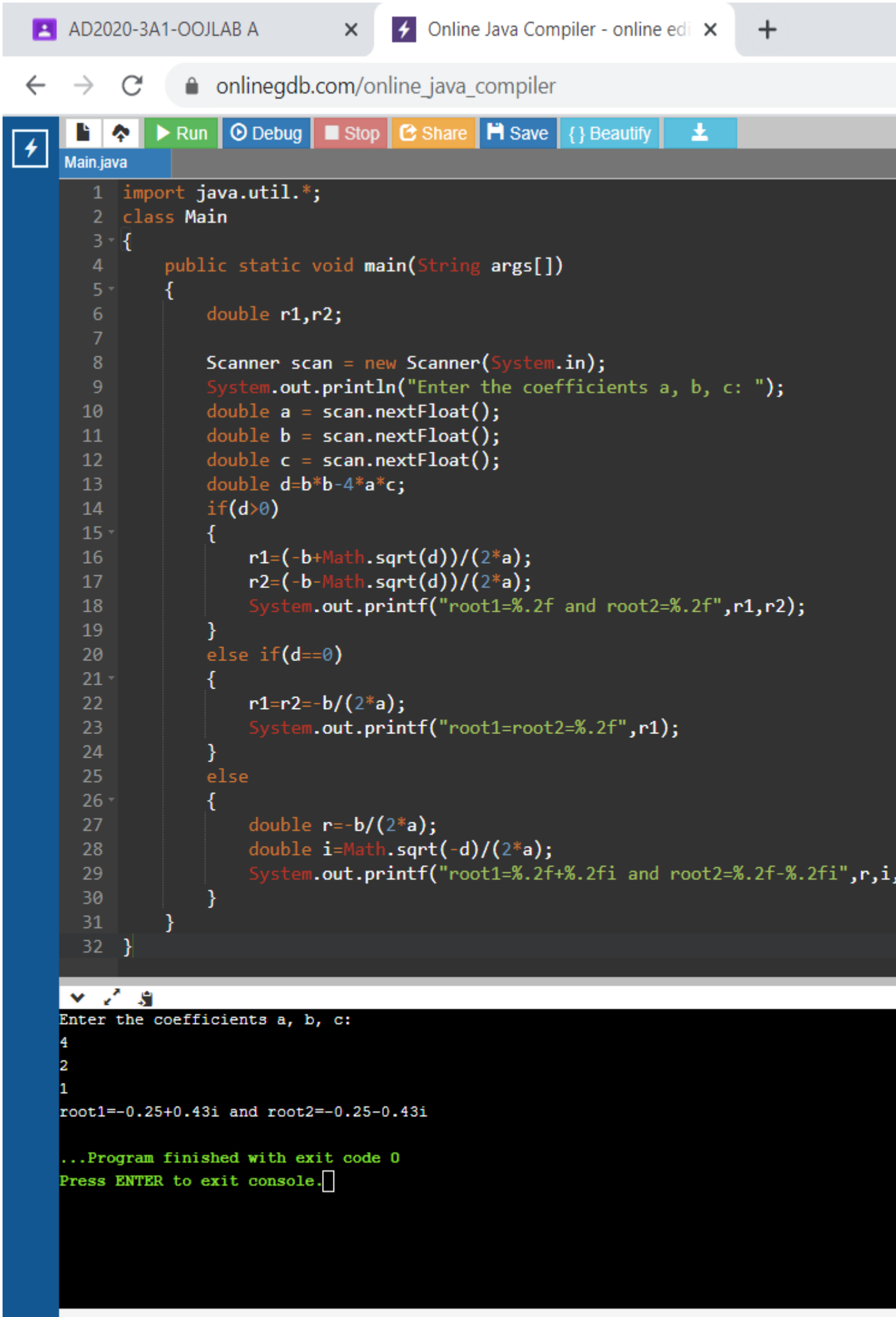
labprog1.java

```java
import java.util.*;
class Main
{
    public static void main(String args[])
    {
        double r1,r2;

        Scanner scan = new Scanner(System.in);
        System.out.println("Enter the coefficients a, b, c: ");
        double a = scan.nextFloat();
        double b = scan.nextFloat();
        double c = scan.nextFloat();
        double d=b*b-4*a*c;
        if(d>0)
        {
            r1=(-b+Math.sqrt(d))/(2*a);
            r2=(-b-Math.sqrt(d))/(2*a);
            System.out.printf("root1=%.2f and root2=%.2f",r1,r2);
        }
        else if(d==0)
        {
            r1=r2=-b/(2*a);
            System.out.printf("root1=root2=%.2f",r1);
        }
        else
        {
            double r=-b/(2*a);
            double i=Math.sqrt(-d)/(2*a);
            System.out.printf("root1=%.2f+%.2fi and root2=%.2f-%.2fi"
        }
    }
}
```

Java source file


AD2020-3A1-OOJLAB A
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onlinegdb.com/online_java_compiler
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{ } Beautify
Main.java
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Scanner scan = new Scanner(System.in);
System.out.println("Enter the coefficients a, b, c: ");
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if(d>0)
{
r1=(-b+Math.sqrt(d))/(2*a);
r2=(-b-Math.sqrt(d))/(2*a);
System.out.printf("root1=%.2f and root2=%.2f",r1,r2);
}
else if(d==0)
{
r1=r2=-b/(2*a);
System.out.printf("root1=root2=%.2f",r1);
}
else
{
double r=-b/(2*a);
double i=Math.sqrt(-d)/(2*a);
System.out.printf("root1=%.2f+%.2fi and root2=%.2f-%.2fi",r,i,
}
}
}
Enter the coefficients a, b, c:
4
2
1
root1=-0.25+0.43i and root2=-0.25-0.43i
...Program finished with exit code 0
Press ENTER to exit console.

```
# import java.util.*
class Main
{
    public static void main [Strin
    {
        double r1, r2;
    Scanner scan = new Scanner
    System.out.println("Enter the co
        b, c;");
    double a = scan.nextFloat();
    double b = scan.nextFloat();
    double c = Scan.nextFloat();
    double d = (b*b)-(4*a*c)
    if (d>0)
    {   r1 = (-b+Math.sqrt(d))/(2* a
        r2 = (-b+Math.sqrt(d))/2*
    System.out.printf("root1 = %.
        root2 = %.2f", r1, r2);
    }
    else if (d==0)
```